

ABSTRACT

A method for indexing minimum coded units (MCUs) in a Joint Photographic Expert Group (JPEG) bit stream includes (1) entropy decoding a first MCU to determine a bit offset of a second MCU and a DC coefficient of the first MCU, wherein the first MCU immediately precedes the second MCU in the bit stream, and (2) indexing the second MCU by storing the bit offset and the DC coefficient in an index. The method may further include (3) receiving a request for the second MCU, (4) reading the index to determine the bit offset of the second MCU and the DC coefficient of the first MCU, and (5) entropy decoding the second MCU starting at its bit offset in the bit stream, wherein the entropy decoding the second MCU includes determining a DC coefficient of the second MCU using the DC coefficient of the first MCU.